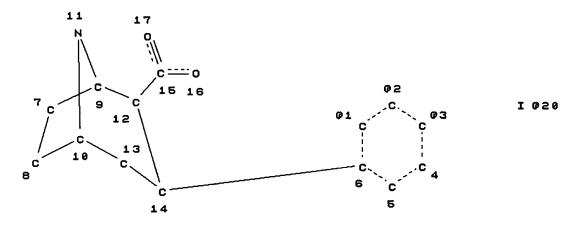
INPUT:

=> file reg
FILE 'REGISTRY' ENTERED AT 12:24:24 ON 14 OCT 92
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STRUCTURE FILE UPDATES: 10 OCT 92 HIGHEST RN 143899-80-3 DICTIONARY FILE UPDATES: 14 OCT 92 HIGHEST RN 143899-80-3

*** YOU HAVE NEW MAIL ***

=> => => d que stat 13 L1 STR



VPA 20-1/2/3 U NODE ATTRIBUTES: NONE

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 18

L3 17 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 23 ITERATIONS

SEARCH TIME: 00.00.08

17 ANSWERS

=>
=> file ca
FILE 'CA' ENTERED AT 12:24:47 ON 14 OCT 92
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FILE COVERS 1967 - 4 Oct 92 (921004/ED) VOL 117 ISS 14. For OFFLINE Prints or Displays, use the ABS or ALL formats to obtain abstract graphic structures. The AB format DOES NOT display structure diagrams.

```
=> => d que 16
L1 STR
L3 17 SEA FILE=REGISTRY SSS FUL L1
L4 8 SEA FILE=CA L3
L5 16564 SEA FILE=CA MONOAMINE?/IA
```

=> d cbib ab hit 16 1-2

L6 ANSWER 1 OF 2 COPYRIGHT 1992 ACS

CA115(23):251138p Single photon emission computed tomography imaging of monoamine reuptake sites in primate brain with [123I]CIT. Innis, Robert; Baldwin, Ronald; Sybirska, Elzbieta; Zea, Yolanda; Laruelle, Marc; Al-Tikriti, Mohammed; Charney, Dennis; Zoghbi, Sami; Smith, Eileen; et al. (VA Med. Cent., West Haven, CT 06516, USA). Eur. J. Pharmacol., 200(2-3), 369-70 (Eng) 1991. CODEN: EJPHAZ. ISSN: 0014-2999.

[123I]CIT [2.beta.-carbomethoxy-3.beta.-(4-iodophenyl)tropane] was evaluated for SPECT (single-photon emission computed tomog.) of dopamine and serotonin reuptake sites in baboon (Papio anubis) brain. Highest activities were obsd. in the striatum and reached peak levels at 179 min postinjection. The hypothalamus had the 2nd highest levels, peaking at 45 min after injection. (-)-Cocaine and 2.beta.-carbomethoxy-3.beta.-(4-fluorophenyl)tropane (dopamine and serotonin reuptake inhibitors, resp.) induced rapid and dose-dependent displacement of both striatal and hypothalamic activities. The results indicate that [123I]CIT may be useful for SPECT of dopamine and serotonin reuptake sites in brain.

(single-photon emission computed tomog. with, of dopamine and serotonin reuptake sites in brain)

L6 ANSWER 2 OF 2 COPYRIGHT 1992 ACS
CA115(21):232566k [123I]-2.beta.-carbomethoxy-3.beta.-(4iodophenyl)tropane: high-affinity SPECT (single photon emission
computed tomography) radiotracer of monoamine reuptake sites in
brain. Neumeyer, John L.; Wang, Shaoyin; Milius, Richard A.;
Baldwin, Ronald M.; Zea-Ponce, Yolanda; Hoffer, Paul B.; Sybirska,
Elzbieta; Al-Tikriti, Mohammed; Charney, Dennis S.; et al. (Res.
Biochem. Inc., Natick, MA 01760, USA). J. Med. Chem., 34(10),
3144-6 (Eng) 1991. CODEN: JMCMAR. ISSN: 0022-2623. OTHER SOURCES:
CJACS.

In order to develop radioligand probes suitable for PET and SPECT imaging of cocaine receptors, iodophenyltropanes I (R = iodo, 123I, R1 = Me; R = iodo, R1 = H) and the 2.alpha. isomer of I (R = iodo R2 = Me) were prepd. from ecgonidine Me ester . I (R = 123I, R1 = Me) was obtained in av. overall yield of 60.0 .+-. 13.4% and radiochem. purity of 97.6 .+-. 1.6%. The affinities of I (R = iodo, R1 = Me) its epimers, and I (R = F, R1 = Me) for the dopamine and serotonin reuptake sites were detd. from radioligand displacement studies using tissue homogenates prepd. from baboon brain. Highest brain uptake overlay the striatal region and peaked at 154 .+-. 19 min post injection and showed striatal to cerebellar ratios of 9.8 .+-. 1.6. The in vivo displacement SPECT expts. support the notion that the majority of striatal activity following injection of I (R = 123I, R1 = Me) was assocd. with dopamine reuptake sites.

IT <u>135416-43-2P</u>

(prepn. and reductive deiodination of)

IT <u>136794-86-0P</u> <u>136794-87-1P</u> <u>136846-26-9P</u>

(prepn. and uptake of, by brain cocaine receptors)

IT <u>136846-27-0P</u> <u>136846-28-1P</u>

> (prepn. of)

=>

=> select hit rn 16 1-2

=> file reg FILE 'REGISTRY' ENTERED AT 12:25:36 ON 14 OCT 92 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT COPYRIGHT (C) 1992 American Chemical Society (ACS)

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*** YOU HAVE NEW MAIL ***

=> =>

=> s e1-e7

1 135416-43-2/RN 1 136794-86-0/RN 1 136794-87-1/RN 1 136846-26-9/RN 1 136846-27-0/RN

1 136846-28-1/RN 1 137433-20-6/RN

1 137433-20-6/RN L7 7 (135416-43-2/R)

7 (135416-43-2/RN OR 136794-86-0/RN OR 136794-87-1/RN OR 136 846-26-9/RN OR 136846-27-0/RN OR 136846-28-1/RN OR 137433-20-6/RN)

=>

=> d ide 17 1-7

L7 ANSWER 1 OF 7 COPYRIGHT 1992 ACS

RN <u>137433-20-6</u> REGISTRY

CN 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-[4-(iodo-123I)phenyl]-

8-methyl-, methyl ester, (exo,exo)- (9CI) (CA INDEX NAME)

MF C16 H20 I N O2

SR CA

LC CA

DES 2:EXO,EXO

Relative stereochemistry.

2 REFERENCES IN FILE CA (1967 TO DATE)

L7 ANSWER 2 OF 7 COPYRIGHT 1992 ACS

RN <u>136846-28-1</u> REGISTRY

CN 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(4-iodophenyl)-8-methyl-, methyl ester, [1R-(2-endo,3-exo)]-, mono(1,5-

naphthalened sulfonate) (9CI) (CA INDEX NAME) OTHER CA INDEX NAMES: 1,5-Naphthalenedisulfonic acid, compd. with [1R-(2-endo,3-exo)]-CN methyl 3-(4-iodophenyl)-8-methyl-8-azabicyclo[3.2.1]octane-2carboxylic acid (1:1) (9CI) C16 H20 I N O2 . C10 H8 O6 S2 MF SR CA LC CA, CJACS CM 1 136846-26-9 CRN CMF C16 H20 I N O2 CDES 1:1R2:2-ENDO,3-EXO

Absolute stereochemistry.

CM 2

CRN 81-04-9 CMF C10 H8 O6 S2

1 REFERENCES IN FILE CA (1967 TO DATE)

L7 ANSWER 3 OF 7 COPYRIGHT 1992 ACS

RN <u>136846-27-0</u> REGISTRY

CN 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(4-iodophenyl)-8-methyl-, methyl ester, [1R-(exo,exo)]-, [S-(R*,R*)]-2,3-dihydroxybutanedioate (1:1) (9CI) (CA INDEX NAME)

MF C16 H20 I N O2 . C4 H6 O6

SR CA

LC CA, CJACS

CM 1

CRN 135416-12-2 CMF C16 H20 I N O2 CDES *

Absolute stereochemistry.

CM 2

CRN 147-71-7 CMF C4 H6 O6 CDES 1:S2:R*,R*

Absolute stereochemistry.

1 REFERENCES IN FILE CA (1967 TO DATE)

L7 ANSWER 4 OF 7 COPYRIGHT 1992 ACS

RN 136846-26-9 REGISTRY

CN 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(4-iodophenyl)-8-methyl-, methyl ester, [1R-(2-endo,3-exo)]- (9CI) (CA INDEX NAME)

MF C16 H20 I N O2

CI COM

SR CA

LC CA, CJACS

DES 1:1R2:2-ENDO,3-EXO

Absolute stereochemistry.

1 REFERENCES IN FILE CA (1967 TO DATE)

L7 ANSWER 5 OF 7 COPYRIGHT 1992 ACS

136794-87-1 REGISTRY RN

CN 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(4-iodophenyl)-, methyl ester, [1R-(exo,exo)]- (9CI) (CA INDEX NAME) C15 H18 I N O2

MF

SR CA

LC CA, CJACS

DES

Absolute stereochemistry.

1 REFERENCES IN FILE CA (1967 TO DATE)

L7 ANSWER 6 OF 7 COPYRIGHT 1992 ACS

RN <u>136794-86-0</u> REGISTRY

8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-[4-(iodo-123I)phenyl]-CN

8-methyl-, methyl ester, [1R-(exo,exo)]- (9CI) (CA INDEX NAME)

C16 H20 I N O2 MF

SR CA

LC CA, CJACS

DES

Absolute stereochemistry.

1 REFERENCES IN FILE CA (1967 TO DATE)

L7 ANSWER 7 OF 7 COPYRIGHT 1992 ACS

RN <u>135416-43-2</u> REGISTRY

8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(4-iodophenyl)-8-CN methyl-, methyl ester, [1R-(exo,exo)]- (9CI) (CA INDEX NAME) C16 H20 I N O2

MF

COM CI

SR CA

LC CA, CJACS

DES

Absolute stereochemistry.

2 REFERENCES IN FILE CA (1967 TO DATE)

=>

=>

=>

=> file home

FILE 'HOME' ENTERED AT 12:26:52 ON 14 OCT 92